Memorandum

To: Administrator Pruitt

From: Aaron Ringel, DAA OCIR Cc: Troy Lyons, AA OCIR

Ryan Jackson, COS

Re: Call w/Rep. Markwayne Mullin (R-OK-02) on May 24, 2017

PURPOSE: You are scheduled to speak with Congressman Markwayne Mullin on Wednesday May 24th about Flint Michigan and drinking water standards. The Congressman serves on the Energy and Commerce Committee, Subcommittee on Energy and is active on environmental issues.

BIOGRAPHY: Mullin was the youngest of seven children on a farm near Westville, a few miles from the Arkansas border. His family had owned part of the land since coming to Oklahoma on the Trail of Tears. He is a member of the Cherokee Nation, making him one of two Native Americans in the House.

Deliberative Process / Ex. 5

May 5, 2017

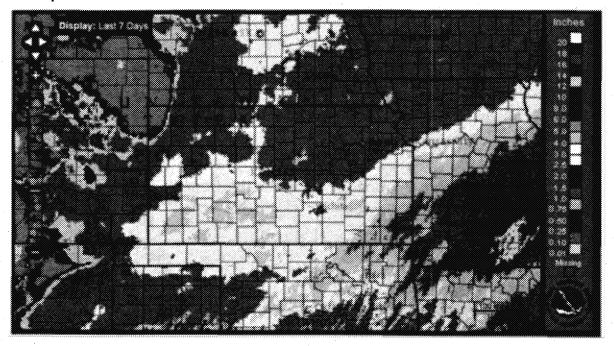
The following information on the Flint Hills prescribed fires will be sent weekly to keep stakeholders up to date on fires and related smoke.



Meteorology

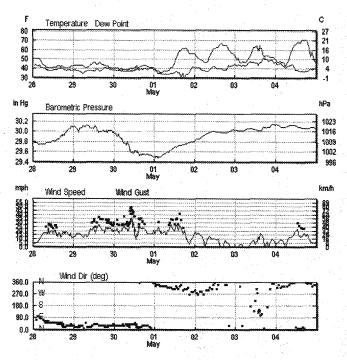
Multiple rounds of rain fell throughout the past week, including some heavy rains over the southern Flint Hills and especially east of the Flint Hills. Rainfall totals over the past week ranged from an inch to more than 6 inches in the Flint Hills. Between the rounds of rain, there were cool and breezy conditions with temperatures in the 40s and 50s, and wind speeds often gusting above 30 mph. Dry conditions finally took hold by late Wednesday (May 3), and warmth returned to the area yesterday (Thursday, May 4) with temperatures back up near 70 degrees.

Precipitation



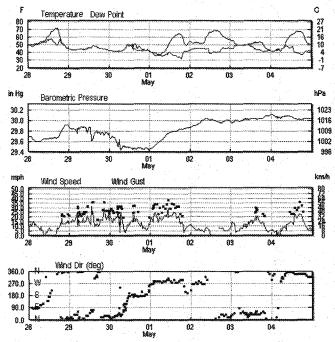
NOAA/NWS Observed Total Precipitation for April 28 - May 4, 2017.

Lincoln, NE



Apr 28 – May 4, 2017 Observed Weather from KLNK. Graphic: Weather Underground, Inc.

Emporia, KS



Apr 28 – May 4, 2017 Observed Weather from KEMP. Graphic: Weather Underground, Inc.

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Air Quality Data

Air quality data for the week of April 28 – May 4, 2017:

Ozone: Preliminary data indicates no exceedances of the NAAQS daily 8-hour average maximum of 70 ppb.

PM2.5: Preliminary data indicates no exceedances of the NAAQS 24-hour daily average of 35 µg/m³.

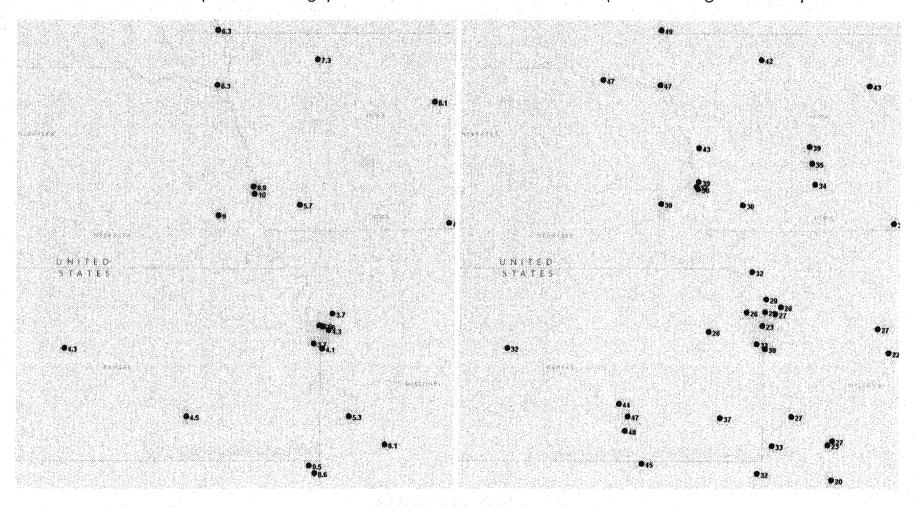
Air quality images on the following pages for each day show preliminary data, courtesy Air Now Tech.

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Friday, April 28, 2017

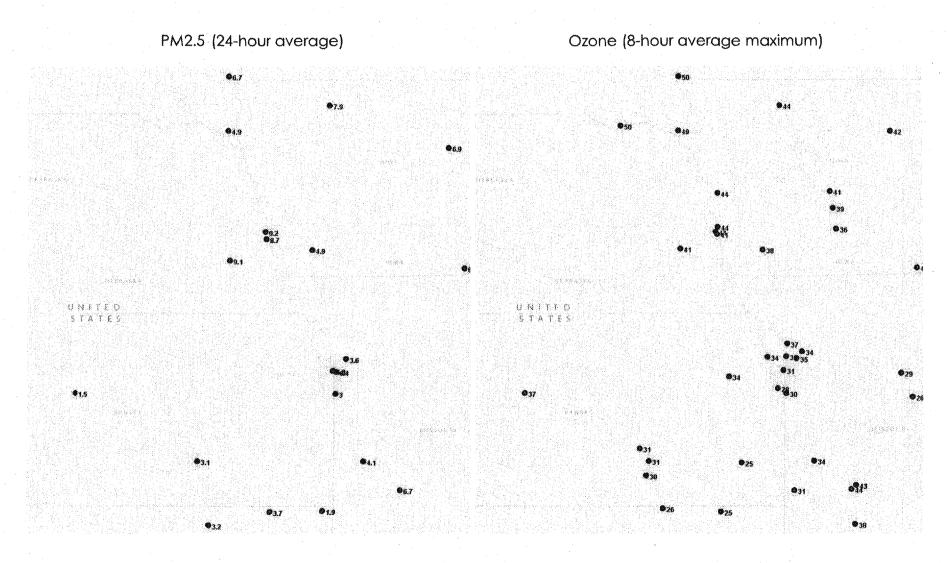
PM2.5 (24-hour average)

Ozone (8-hour average maximum)



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Saturday, April 29, 2017



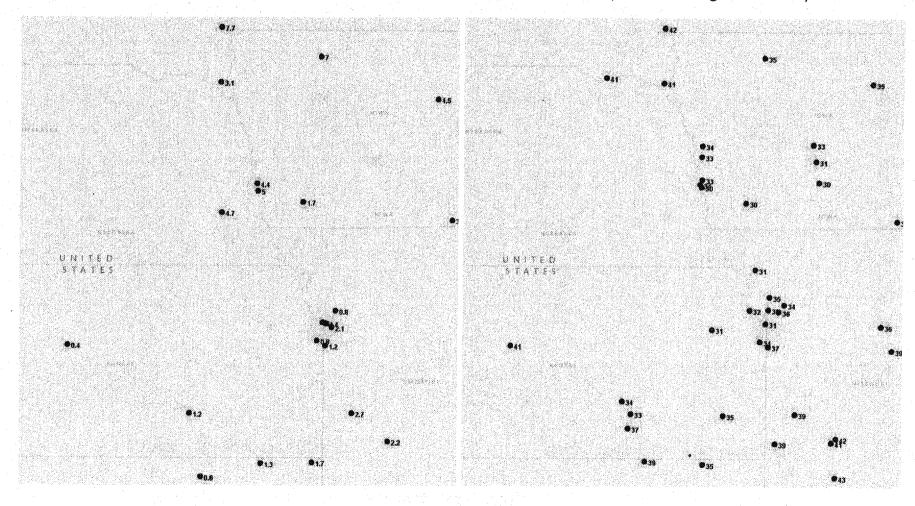
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Sunday, April 30, 2017

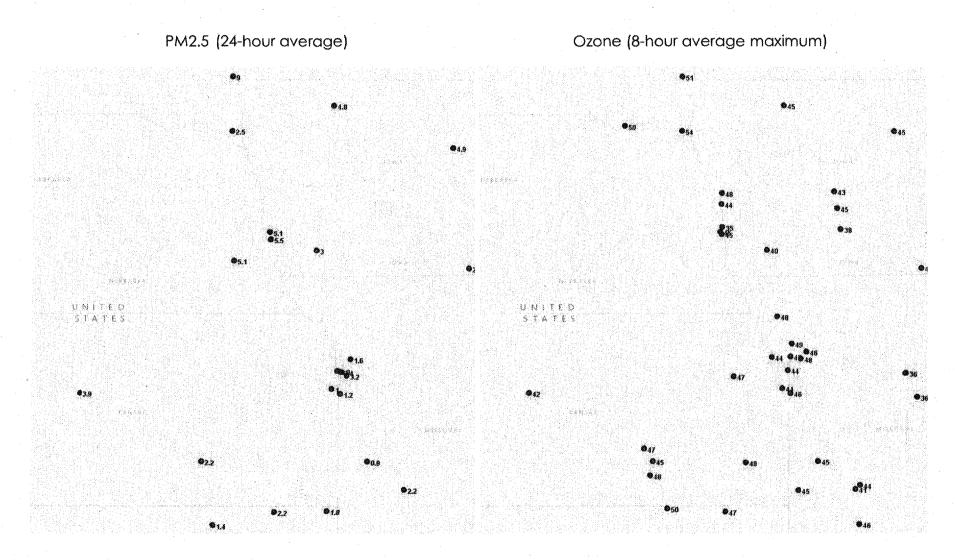
PM2.5 (24-hour average)

Ozone (8-hour average maximum)



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Monday, May 1, 2017



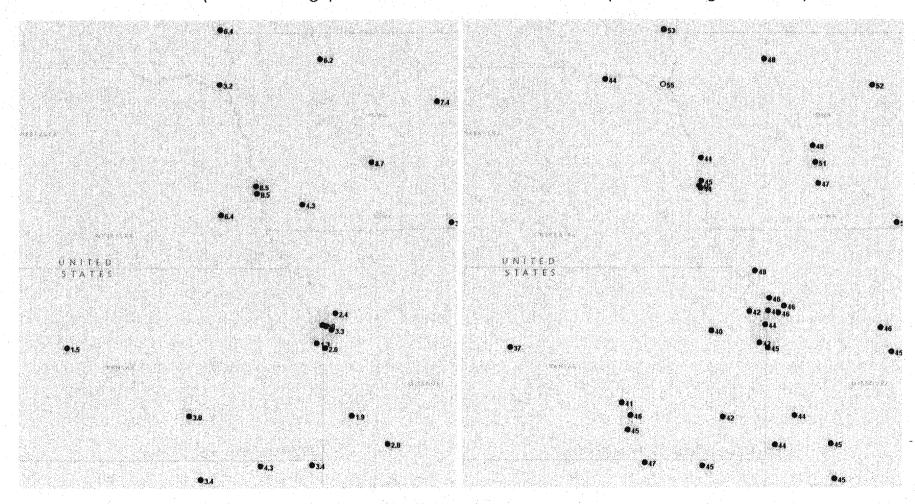
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Tuesday, May 2, 2017

PM2.5 (24-hour average)

Ozone (8-hour average maximum)



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Wednesday, May 3, 2017



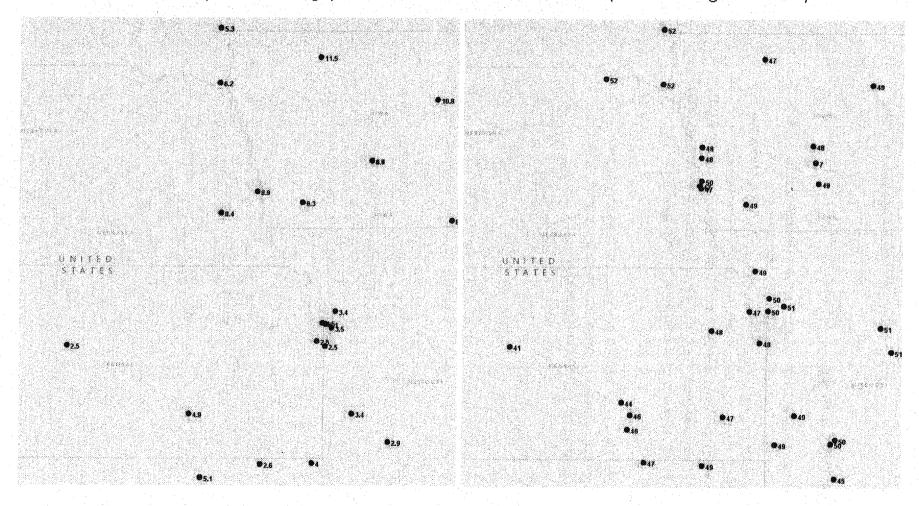
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Thursday, May 4, 2017

PM2.5 (24-hour average)

Ozone (8-hour average maximum)



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Fires and Smoke

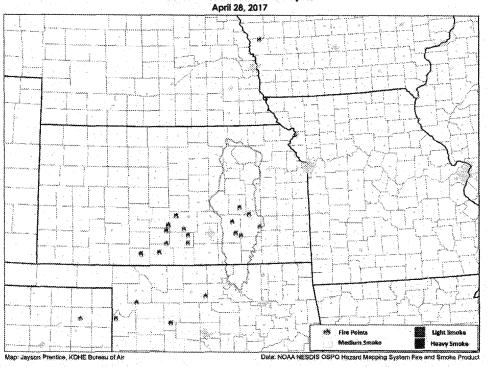
A mere handful of prescribed fires within the Flint Hills were seen last Friday (April 28) and Monday (May 1). A few other prescribed fires occurred outside of the Flint Hills throughout the week. An area of smoke was analyzed along the Missouri River valley on Tuesday (May 2), primarily aloft, that was likely from prescribed burning in North Dakota and southern Manitoba, Canada.

Daily Fires and Smoke Analysis provided by NOAA Hazard Mapping System Fire and Smoke Product are provided on the following pages.

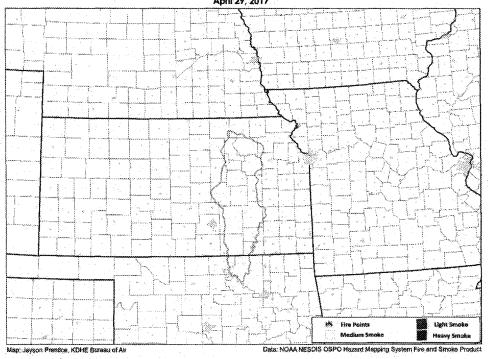
KSFIRE.ORG

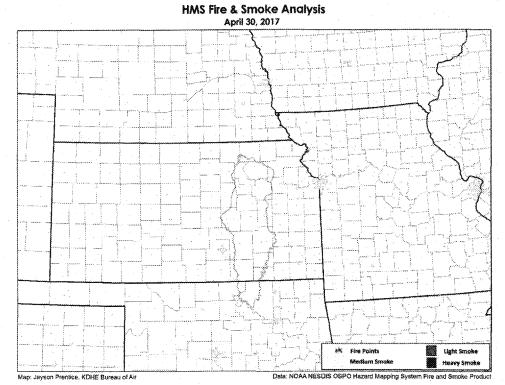
This website was developed as part of the development of the Kansas Flint Hills Smoke Management Plan. Kansas State University hosts the webpage and it includes important information for ranchers and others who might be interested in the Flint Hills. It provides training, regulations, policies, publications, a modeling tool and other links to guide people looking for information on smoke management. The development of the Flint Hills Smoke Management Plan is an attempt to balance the need for prescribed fire in the Flint Hills with the need for clean air in downwind areas.

HMS Fire & Smoke Analysis

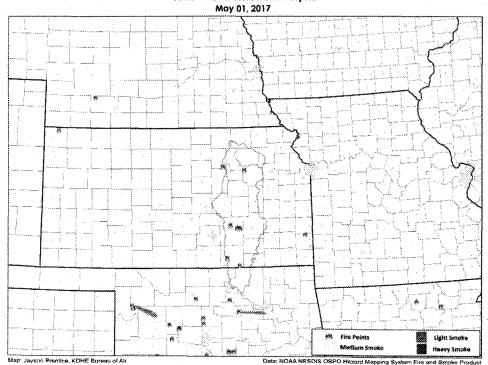


HMS Fire & Smoke Analysis April 29, 2017

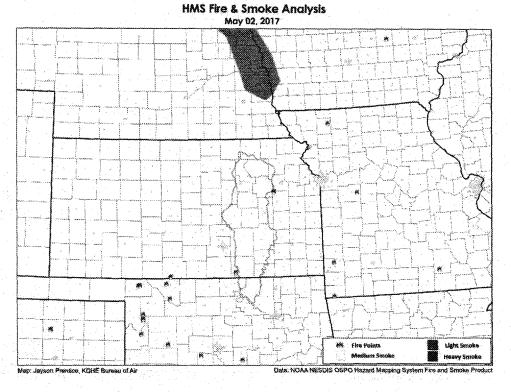


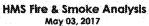


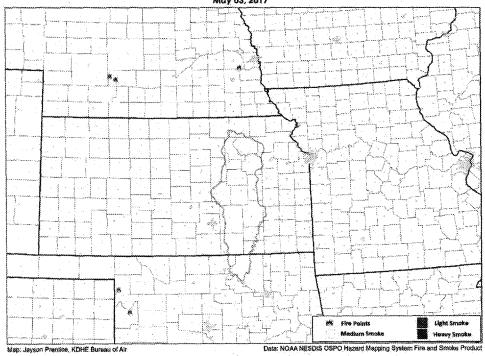
HMS Fire & Smoke Analysis



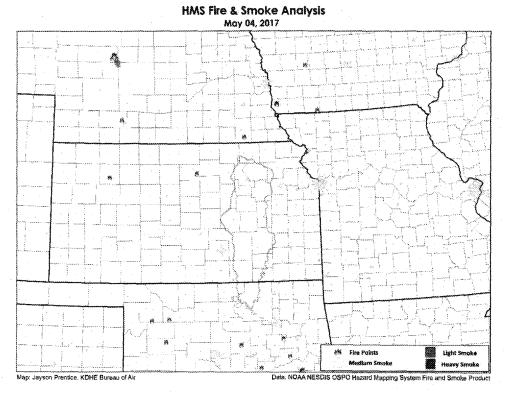
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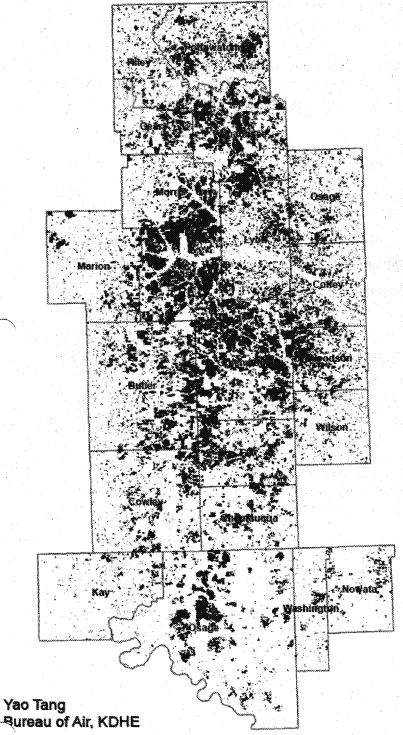


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Flint Hills Acreage Burned (February 15 – May 1, 2017)



<u>Counties</u>	Acres Burned	
Butler	219,202	·
Chase	273,088	
Chautauqua	59,276	
Coffey	84,203	*
Cowley	99,786	
Elk	126,520	
Geary	62,133	
Greenwood	351,035	
Lyon	151,617	
Marion	68,156	
Morris	118,721	-
Osage (KS)	67,152	*
Pottawatomie	125,331	
Riley	63,677	
Wabaunsee	194,908	
Wilson	31,074	
Woodson	100,620	
Nowata (OK)	24,835	
Osage (OK)	173,317	
Washington (OK)	14,811	
Kay (OK)	27,676	
Total	2,437,138	

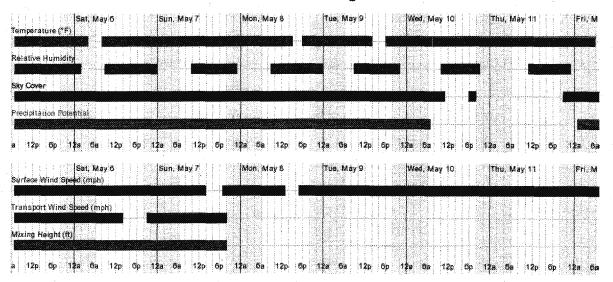
^{*} Denotes county was partly or completely covered by clouds during analysis.

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Upcoming Look at Fires and Smoke

Intensive 'green-up' has already occurred across the Flint Hills and will likely preclude any additional significant prescribed burning this spring. Temperatures and humidity will be ideal throughout the week ahead. There appears to be a good chance for a round of rain on Wednesday and Thursday. Breezy conditions are expected for Sunday and Monday afternoon. A high pressure moving overhead will drop transport wind speeds below the ideal threshold on Saturday afternoon.

Ideal Weather Conditions for Prescribed Burning



Current National Weather Service forecast for the approximate center of the Flint Hills showing when conditions may be most favorable for wildland burning as described at <u>KSFire.org</u>. Conditions are most favorable when each parameter has a colored boxplot displayed. Note: Forecast for mixing height and transport winds are only out to 2 days. Forecast valid: 8am May 5, 2017.